

### Abstract of the Disclosure

An interface device is connected to a host by an I/O bus and provides hardware and processing mechanisms for accelerating data transfers between a network and a storage unit, while controlling the data transfers by the host. The interface device

5 includes hardware circuitry for processing network packet headers, and can use a dedicated fast-path for data transfer between the network and the storage unit, the fast-path set up by the host. The host CPU and protocol stack avoids protocol processing for data transfer over the fast-path, freeing host bus bandwidth, and the data need not cross the I/O bus, freeing I/O bus bandwidth. Realtime audio and video communication can

10 also be provided when the interface device is coupled by an audio/video interface to appropriate communication devices, such as microphone, a speaker, a camera and/or a display.